Papers read before the Society from February 1876 to February 1877.

1876.

The Stereo-Micrometer. Prof. Zenger. Mar. 10.

> Occultation of the Pleiades observed at Madras on Jan. 7, 1876. Mr. N. R. Pogson.

Abstract of Prof. Christian Mayer's paper on the Observations of Binary Stars discovered at the Mannheim Observatory, Mr. S. M. Drach.

On the proper Motions of the two components of the Binary system a Centauri. Mr. E. J. Stone.

On a supposed Variability of the Proper Motion of B.A.C. 793. Mr. E. J. Stone.

Micrometer-measures of Saturn's satellites made at the Royal Observatory, Greenwich, in the year The Astronomer-Royal.

Comparisons of recent and former Observations of B.A.C. 793, and remarks on the alleged Variability of its proper Motion. Mr. Dunkin.

Note on a Starlit Transit Eye-piece. Dr. Royston Pigott.

Observations of the November Meteors made at the Royal Observatory, Greenwich, in 1875. Astronomer-Royal.

Preliminary Note on Photographing the least refracted portion of the Solar Spectrum. Capt. W. de W. Abney.

Reference Catalogue of Astronomical papers and Researches. Mr. Knobel.

On the most probable Result which can be derived from a number of direct Determinations with assigned Weights. Mr. E. J. Stone.

A list of Stars beyond the ordinary limits of Distance, inserted as double in Sir John Herschel's General Catalogue of Double Stars. M. Flammarion.

Radiant Points of Shooting Stars. Mr. W. F. Denning.

Near approach of 47 Geminorum. Rev. S. J. Johnson.

An Instrument for determining Spherical Triangles by Mechanical action. Mr. F. C. Penrose.

Note on the two exterior Satellites of *Uranus*. T. W. Webb.

June

May 12. On our Sidereal System, and the Direction and Distance to its Centre. Mr. J. Ennis.

Note on the Conjunction of Venus and λ Geminorum on August 17–18, 1876. Mr. Dunkin.

On recent American determinations of Geographical positions in the West Indies and Central America. Major H. S. Palmer.

A Catalogue of red double Stars. Mr. S. W. Burnham.

Observations of Minor Planets made at the Observatory of Marseilles. M. E. Stephan.

Note on the Discovery and Observations of Minor Planets (160) to (163). Mr. Dunkin.

Note on Coggia's Comet (III. 1874). Mr. J. Dreyer.

On the relative Power of Achromatic and Reflecting Telescopes. Dr. T. R. Robinson.

Note on the Satellites of Uranus. Mr. E. Neison.

Note on Dr. Royston Pigott's Starlit Transit Eyepiece. Capt. W. Noble.

Visibility of Oberon and Titania. Mr. Rogerson.

On Lohrmann's and Schmidt's Lunar Maps, and Note on a new red Star. Mr. J. Birmingham.

Spectroscopic results for the Motions of Stars in the line of sight made at the Royal Observatory, Greenwich. The Astronomer-Royal.

Note on the Displacement of Lines in the Spectra of Stars. Mr. W. H. M. Christie.

On Precession. Dr. Berg.

On the Transit across the Sun's disk of the second, or great Comet of 1819. Mr. J. R. Hind.

9. On the Atmosphere of Venus. Mr. E. Neison.

Remarks in connection with his five volumes of Solar drawings. Rev. F. Howlett.

On the Determination of the Distances of a Comet from the Earth from three Observations. Dr. Berg.

Visibility of *Mercury* and *Venus* in sunshine. Mr. W. F. Denning.

Elements of Minor Planets (161), (162) and (163). Mr. Dunkin.

On a hitherto unnoticed apparent inequality in the Longitude of the Moon. Prof. S. Newcomb.

Photometric experiments upon the Light of Venus. Mr. J. I. Plummer.

Observations of Venus. Capt. W. Noble.

On the proper Motion of the bright Spots on Jupiter. Mr. J. Brett.

Note on a method of obtaining Equatoreal Motion on an Altazimuth Stand. Lord Lindsay.

Note on a Double Image Spectroscope. Lord Lindsay.

- Nov. 10. Measurement of the direct Effects of Sun-spots on Terrestrial Climates. Prof. Langley.
 - Observations of Planets with the Transit Circle at Dublin (Dunsink). Dr. R. Copeland.
 - Observations of Lunar Eclipse of 1876, September 3, made at Cadiz. Senor A. T. Arcimis.
 - A method of deducing the Formula for correcting the Computed Time of an observed Occultation for errors in the Elements adopted. Mr. W. H. Finlay.
 - Description of an Improved Altazimuth Stand for Reflecting Telescopes, with a new form of Binocular Eye-piece. Mr. W. H. Thornthwaite.
 - Spectroscopic observations of the Motions of Stars and of *Venus* in the line of sight, and of the rotation of the Sun and of *Jupiter*, made at the Royal Observatory, Greenwich. The Astronomer-Royal.
 - On the effect of wear in the Micrometer Screws of the Greenwich Transit Circle. Mr. W. H. M. Christie. Observations of the Solar Eclipse of 1876, Sept. 17. Mr. J. Tebbutt.
 - An endeavour to simplify the method of making the correction for the Spheroidal figure of the Earth in Lunar observations, and particularly with reference to its effects upon the Lunar Distance. Mr. F. C. Penrose.
- Dec. 8. A List of Binary and other interesting Double Stars. Messrs. J. M. Wilson and J. Gledhill.
 - On some phenomena of the Internal Contacts common to the Transits of *Venus*, observed in 1769 and 1874, and some remarks thereon. Mr. E. J. Stone.
 - On some diffraction Experiments of M. Ch. André, with reference to Astronomical Instruments, and the general theory of this Diffraction. Rev. S. J. Perry.
 - On the Phenomena exhibited by a Planet in its transit across the Solar disk, from observations by M. Ch. André. Rev. S. J. Perry.
 - Note on the relative Space-penetrating power of the Pulkowa 15-inch Refractor, and Mr. Lassell's 4-foot Reflector. M. O. Struve.
 - On an Oversight in the "Mécanique Céleste," and on the Internal Densities of the Planets. Mr. G. H. Darwin.
 - On the Error of the tabular place of *Venus* on December 8, 1874. Col. Tennant.
 - Note on the Gradation of Light on the disk of Venus. Mr. W. H. M. Christie.
 - On the Position of the point of maximum brightness on Venus, Mr. E. Neison.

Note on Professor Langley's paper on the Direct Effects of Sun-spots on Terrestrial Climates. W. Mattieu Williams.

On the Orbit of a Centauri. Mr. A. Marth.

- On the Conjunction of *Venus* and λ *Geminorum*. J. I. Plummer.
- Theory of the Horizontal Photoheliograph, including its application to the determination of the Solar Parallax by means of Transits of Venus. Harkness.
- On O. M. Mitchell's Observations at Cincinnati. Prof. Cleveland Abbe.
- Observations of Shooting Stars, April to December. Mr. W. F. Denning.
- Note on an Improved Mode of viewing the Sun. Dr. W. Erck.
- Observations of Occultations of Stars by the Moon, and phenomena of *Jupiter's* satellites, made at the Royal Observatory, Greenwich, in the year 1876. The Astronomer-Royal.
- Micrometical Measures of Double Stars. Knott.
- Ephemeris for determining the positions of the satellites of *Uranus*. Mr. A. Marth.
- On the Orbit of a Centauri. Mr. J. R. Hind.
- The Specular Reflection hypothesis, and its bearing on the Transits of Venus. Mr. J. Brett.